

### AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A rolling bearing comprising races having a raceway, and rolling elements having a rolling contact surface, at least the raceway of the races having a ~~machined~~ super-finished surface in which a surface layer is formed by electrochemically or chemically dissolving the ~~machined~~ super-finished surface.
2. (Currently Amended) A rolling-bearing unit comprising a rotating shaft of a flywheel for attitude control of an artificial satellite and a rolling bearing provided for supporting the rotating shaft and having races formed with a raceway and rolling elements formed with a rolling contact surface, at least the raceway of the races having a ~~machined~~ super-finished surface in which a surface layer is formed by electrochemically or chemically dissolving the ~~machined~~ super-finished surface.